

SEQUENCE LISTING

<110> MILLENNIUM PHARMACEUTICALS, INC.

<120> NOVEL GENES ENCODING PROTEINS HAVING DIAGNOSTIC,
PREVENTIVE, THERAPEUTIC, AND OTHER USES

<130> 210147.0034/12WO

<140> Not Yet Assigned

<141> 2000-06-30

<150> US 09/345,293

<151> 1999-06-30

<150> US 09/345,680

<151> 1999-06-30

<160> 35

<170> PatentIn Ver. 2.1

<210> 1

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<212> DNA

<213> Homo sapiens

<400> 1

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<210> 3
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Leu Val Leu Gly Leu Ser Leu Cys Val His Leu Leu Met Phe Pro Ala
      35              40              45

Ala Val Ser Gly Gly Arg Asp Cys His Ile Leu Glu His Gly His Ile
      50              55              60

Tyr Leu His Arg Cys Thr Glu Pro Asp Met Leu Pro Phe Glu Ser Gln
      65              70              75              80

His Ser Val Thr Thr Leu Ser Ile Ala Pro Glu Arg Gly Pro Glu Pro
      85              90              95

Thr Ala Leu His Ser Cys Leu His Lys Asn Arg Asp Gly Leu Gly Arg
      100             105             110

Ile Met Lys Arg Lys Ile Trp Leu Ala Leu Gly Leu Gly His His Ile
      115             120             125

Gly Ser Ala Ala Tyr Cys Val Ser Gly Ser Arg Ala Pro Trp Glu Ala
      130             135             140

Ser Cys Gly Cys His Asp Ser Ser His Pro Trp Ser Ser His Ser Met
      145             150             155             160

Glu Ser Gly Leu Ser Gln Ser Cys Gln Pro Phe Pro Val Tyr Gln Thr
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Ala Val Ser Gly Gly
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<210> 5

<211> 143

<212> PRT

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Thr Glu Pro Asp Met Leu Pro Phe Glu Ser Gln His Ser Val Thr Thr
20 25 30
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35 40 45
Cys Leu His Lys Asn Arg Asp Gly Leu Gly Arg Ile Met Lys Arg Lys
50 55 60
Ile Trp Leu Ala Leu Gly Leu Gly His His Ile Gly Ser Ala Ala Tyr
65 70 75 80
Cys Val Ser Gly Ser Arg Ala Pro Trp Glu Ala Ser Cys Gly Cys His
85 90 95
Asp Ser Ser His Pro Trp Ser Ser His Ser Met Glu Ser Gly Leu Ser
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Gln Ser Cys Gln Pro Phe Pro Val Tyr Gln Thr Met Glu Val Gln Pro
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<211> 58

<212> PRT

<213> Homo sapiens

<400> 6

Arg Ala Pro Trp Glu Ala Ser Cys Gly Cys His Asp Ser Ser His Pro
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Trp Ser Ser His Ser Met Glu Ser Gly Leu Ser Gln Ser Cys Gln Pro
20 25 30

Phe Pro Val Tyr Gln Thr Met Glu Val Gln Pro Tyr Met Ser Cys Gly
 35 40 45

Pro Thr Asp Gln Leu Val Arg Thr Gly Glu
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<210> 7
 <211> 21
 <212> PRT
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 Ile Trp Leu Ala Leu Gly Leu Gly His His Ile Gly Ser Ala Ala Tyr
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Cys Val Ser Gly Ser
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<210> 8
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 8
 Arg Asp Cys His Ile Leu Glu His Gly His Ile Tyr Leu His Arg Cys
 1 5 10 15

Thr Glu Pro Asp Met Leu Pro Phe Glu Ser Gln His Ser Val Thr Thr
 20 25 30

Leu Ser Ile Ala Pro Glu Arg Gly Pro Glu Pro Thr Ala Leu His Ser
 35 40 45

Cys Leu His Lys Asn Arg Asp Gly Leu Gly Arg Ile Met Lys Arg Lys
 50 55 60

<210> 9
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 9
 Leu Phe Phe Pro Thr Arg Leu Gln His Pro Leu Arg Glu Gly Asp Gln
 1 5 10 15

Asn Arg Gly Pro Ser Ser
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<210> 10
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 10

Leu Val Leu Gly Leu Ser Leu Cys Val His Leu Leu Met Phe Pro Ala
1 5 10 15

Ala Val

<210> 11

<211> 67

<212> PRT

<213> Homo sapiens

<400> 11

Ser Gly Gly Arg Asp Cys His Ile Leu Glu His Gly His Ile Tyr Leu
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His Arg Cys Thr Glu Pro Asp Met Leu Pro Phe Glu Ser Gln His Ser
20 25 30

Val Thr Thr Leu Ser Ile Ala Pro Glu Arg Gly Pro Glu Pro Thr Ala
35 40 45

Leu His Ser Cys Leu His Lys Asn Arg Asp Gly Leu Gly Arg Ile Met
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Lys Arg Lys
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<213> Homo sapiens

<400> 23

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Trp Ala Phe Ile Trp Gly Gly His Val Ser Pro Thr Trp Asn Ser Glu
20 25 30
Pro Gly Gln Asp Ser Asn Leu Trp Ala Cys Asp Asp Ile Ile Ser Asn
35 40 45
Arg Glu Trp Glu Arg Met Leu Ala Ser Gln Val Leu Lys Cys Pro Gly
50 55 60
Gly Glu Glu Lys Gly Arg His Glu Lys Glu Thr Met Lys Lys Met Gly
65 70 75 80
Glu Gly Glu Ile Val
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<210> 24

<211> 23

<212> PRT

<213> Homo sapiens

<400> 24

Met Gln Ser His Leu Phe Ile Thr Leu Gly Ser Val Phe Leu Leu Leu
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Trp Ala Phe Ile Trp Gly Gly
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<210> 25

<211> 62

<212> PRT

<213> Homo sapiens

<400> 25

His Val Ser Pro Thr Trp Asn Ser Glu Pro Gly Gln Asp Ser Asn Leu
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Trp Ala Cys Asp Asp Ile Ile Ser Asn Arg Glu Trp Glu Arg Met Leu
20 25 30
Ala Ser Gln Val Leu Lys Cys Pro Gly Gly Glu Glu Lys Gly Arg His
35 40 45
Glu Lys Glu Thr Met Lys Lys Met Gly Glu Gly Glu Ile Val
50 55 60

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<213> Homo sapiens

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<210> 33
<211> 91
<212> PRT
<213> Homo sapiens

<400> 33
Met Gly Met Asp Trp Val Pro Trp Asp Leu Arg Leu Leu Leu Tyr Leu
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Val Pro Ser Gln Gly Phe Ser Trp Trp Arg Trp Leu Leu Asp Phe Leu
20 25 30

Glu Met Asp Ala Met Gln Gly Cys Ile Leu Thr Arg Gly Lys Glu Val
35 40 45

Ile Leu Glu Gly Gly Trp Ile Asp Cys Glu Ser Ala Pro Ala Pro Glu
50 55 60

Thr Arg Gln Gly Cys Leu Glu Ala Pro Pro Pro Ser Glu Thr Asp Ser
65 70 75 80

Gln Gln Ser His Thr Val Trp Ser Ala Lys Cys
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<210> 34
<211> 22
<212> PRT
<213> Homo sapiens

<400> 34
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Val Pro Ser Gln Gly Phe
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<212> PRT
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<400> 35
Ser Trp Trp Arg Trp Leu Leu Asp Phe Leu Glu Met Asp Ala Met Gln
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Gly Cys Ile Leu Thr Arg Gly Lys Glu Val Ile Leu Glu Gly Gly Trp
20 25 30

Ile Asp Cys Glu Ser Ala Pro Ala Pro Glu Thr Arg Gln Gly Cys Leu
35 40 45

Glu Ala Pro Pro Pro Ser Glu Thr Asp Ser Gln Gln Ser His Thr Val
50 55 60

Trp Ser Ala Lys Cys
65